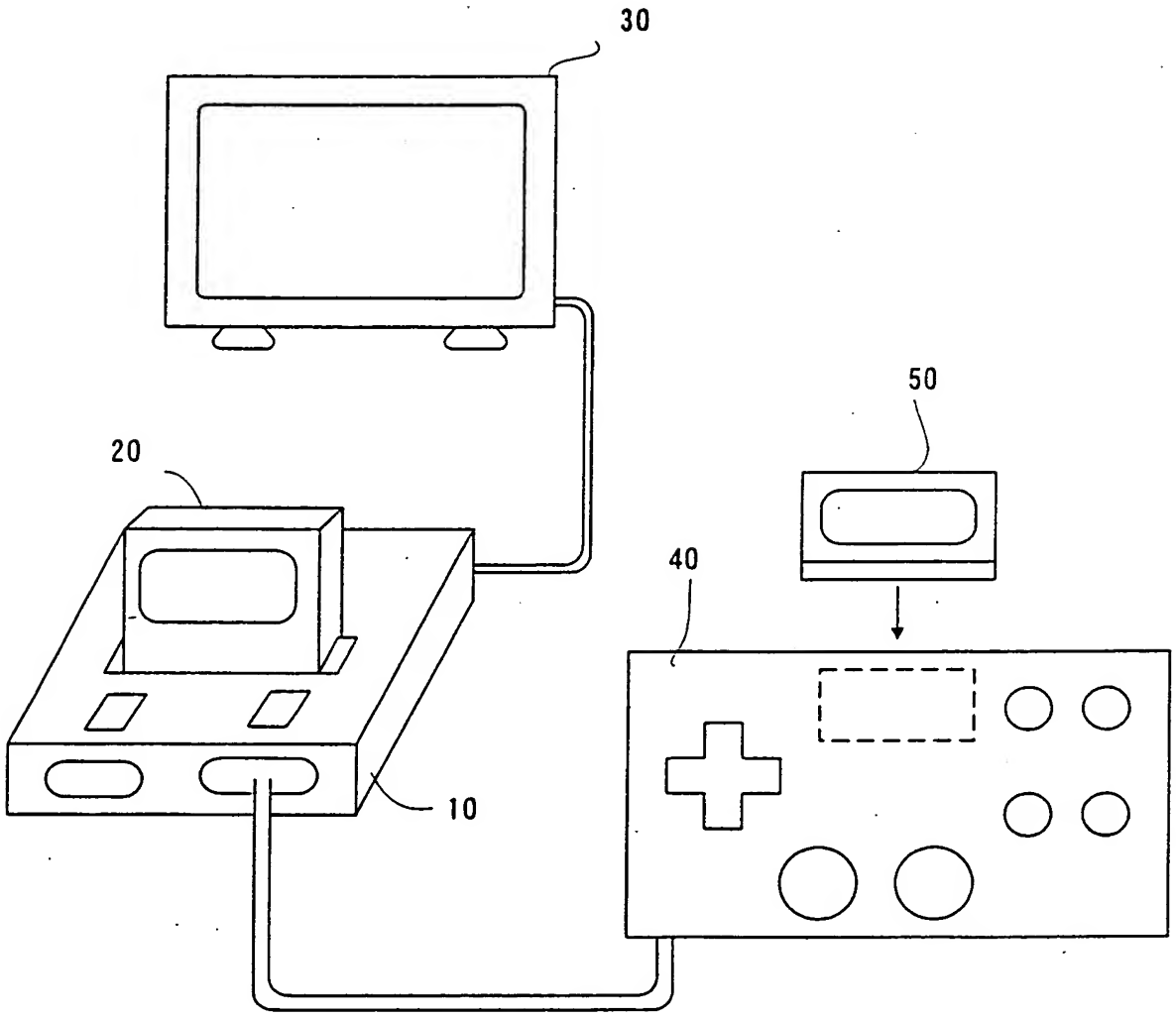
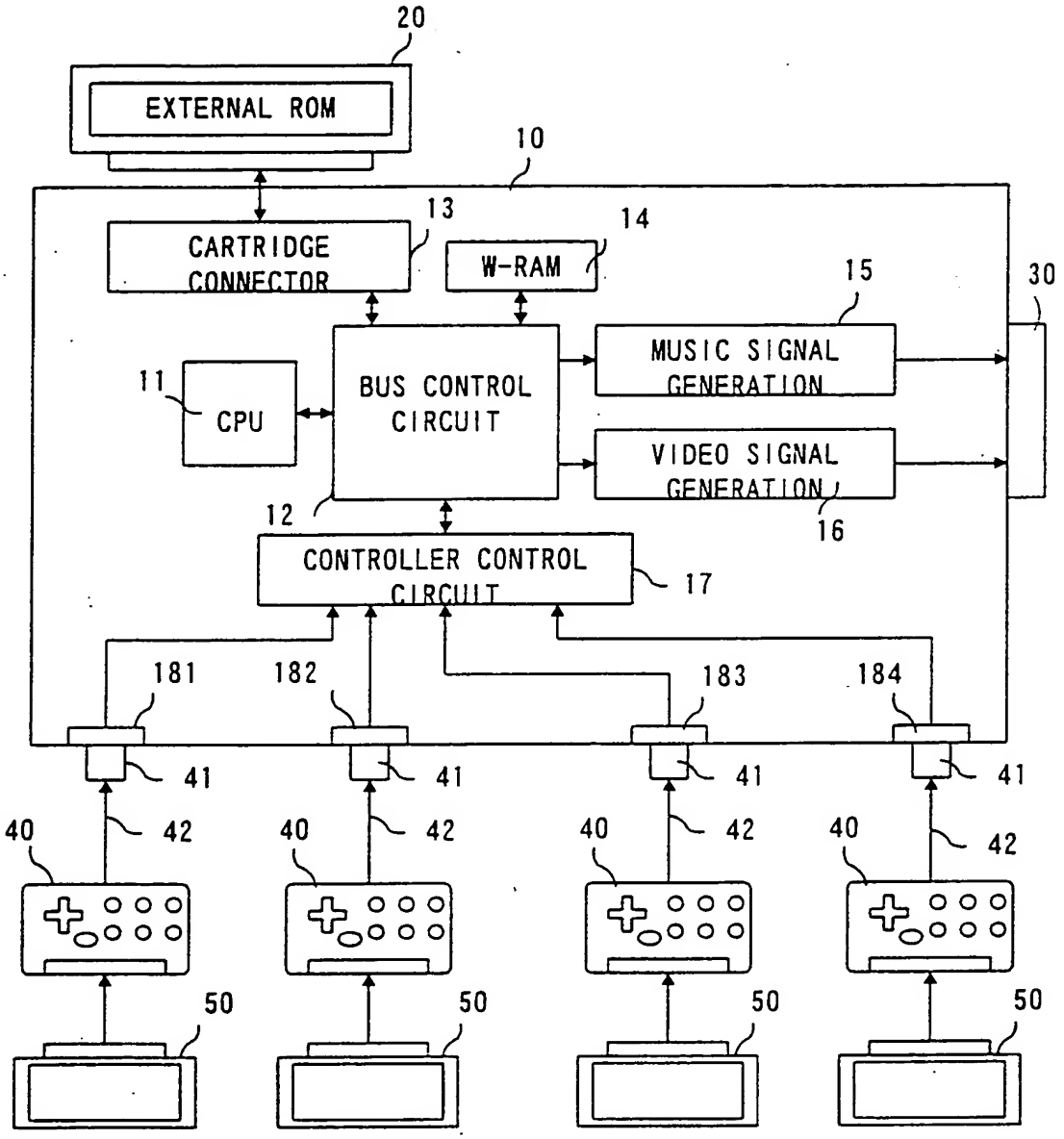
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 1



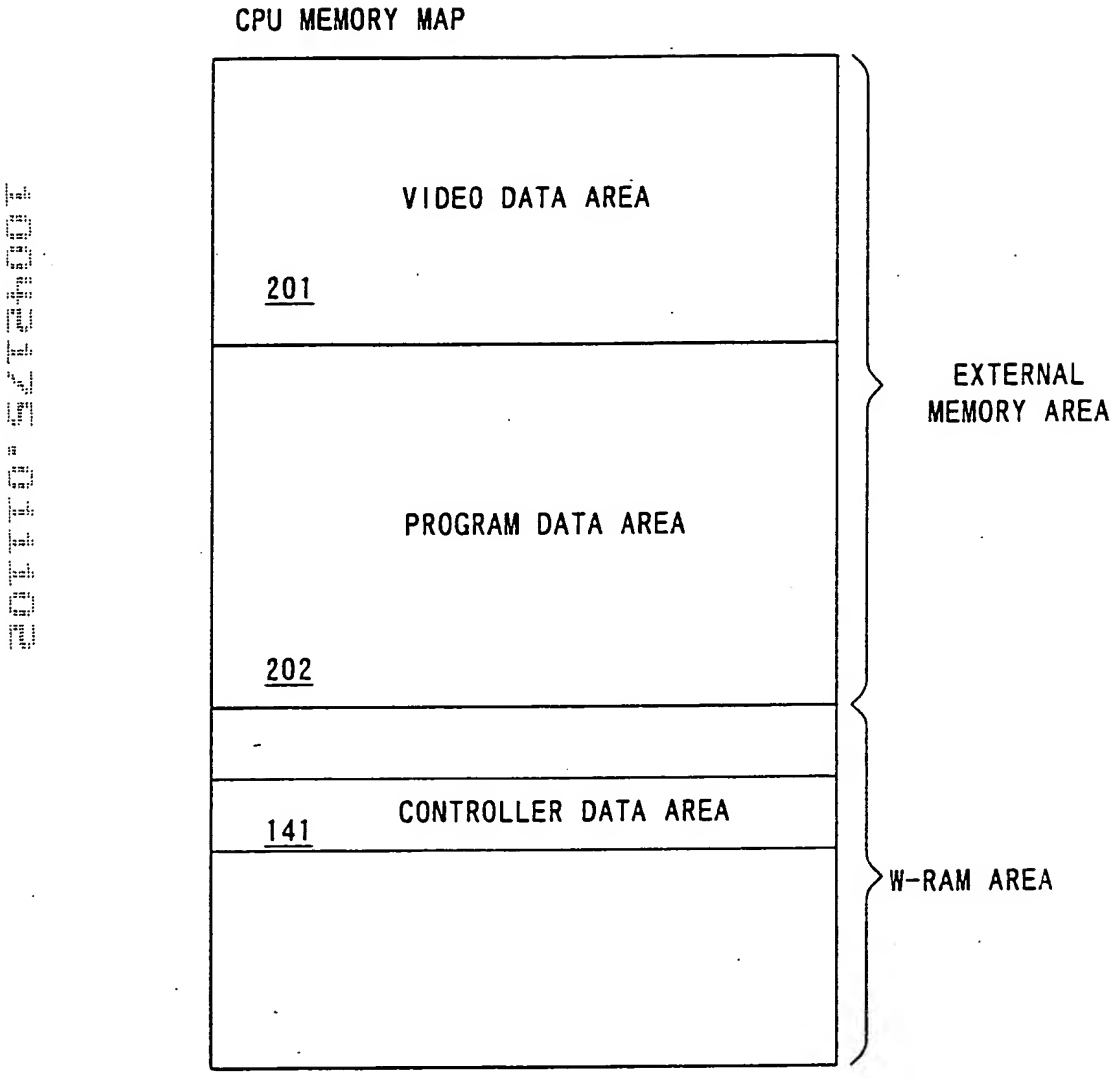
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 2



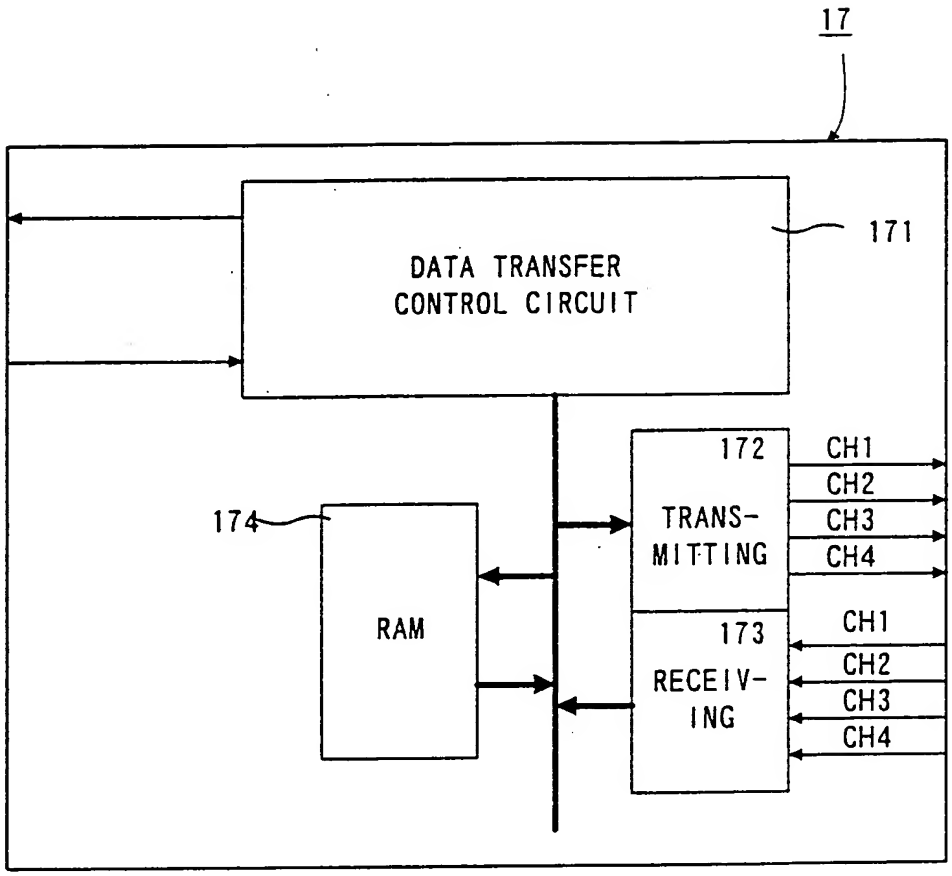
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 3



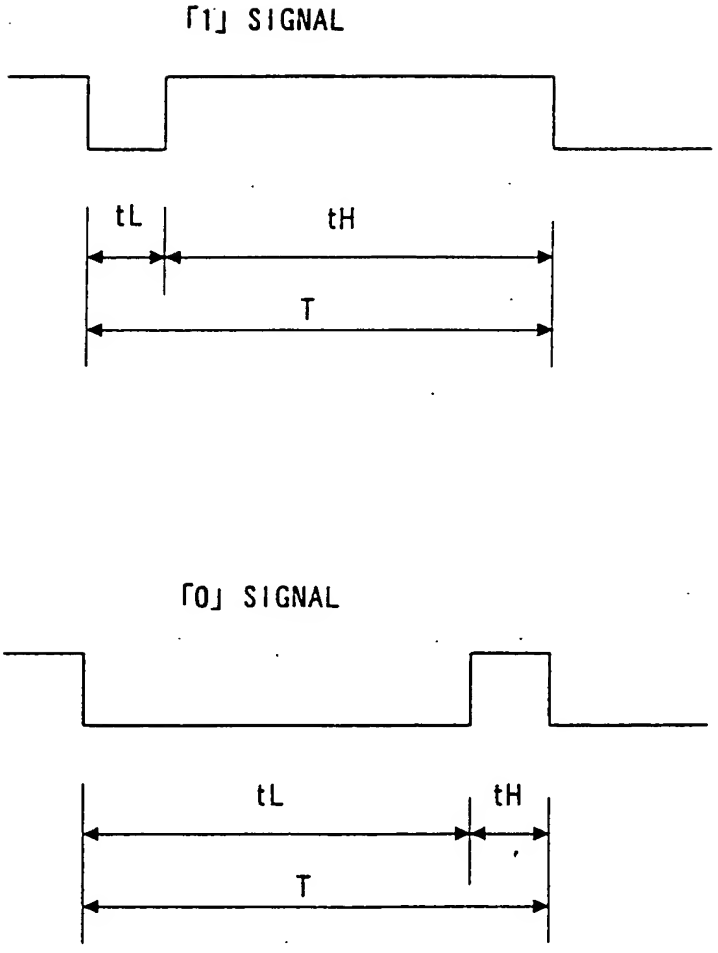
APPROVED BY | O.G. FIG. | CLASS | SUBCLASS

FIG. 4



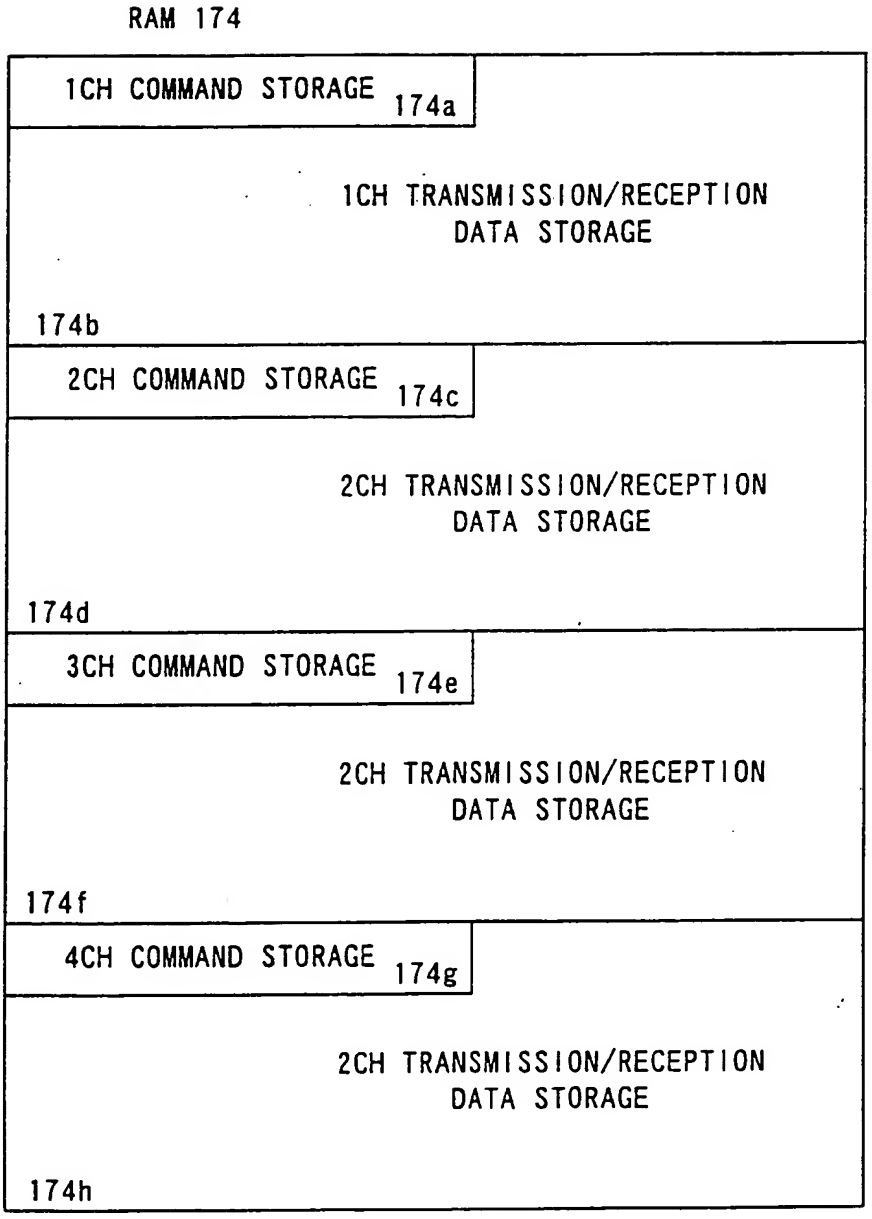
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 5



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 6



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 7

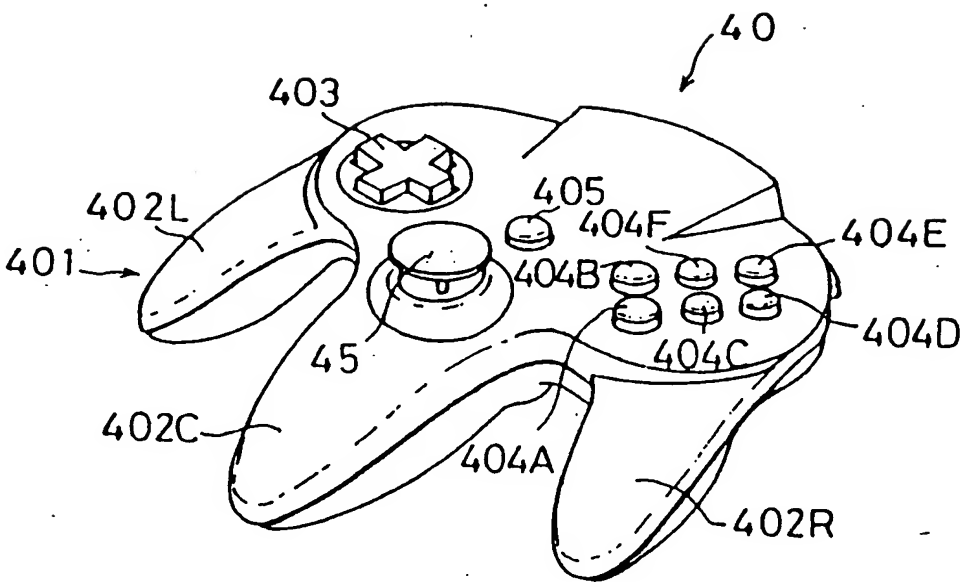
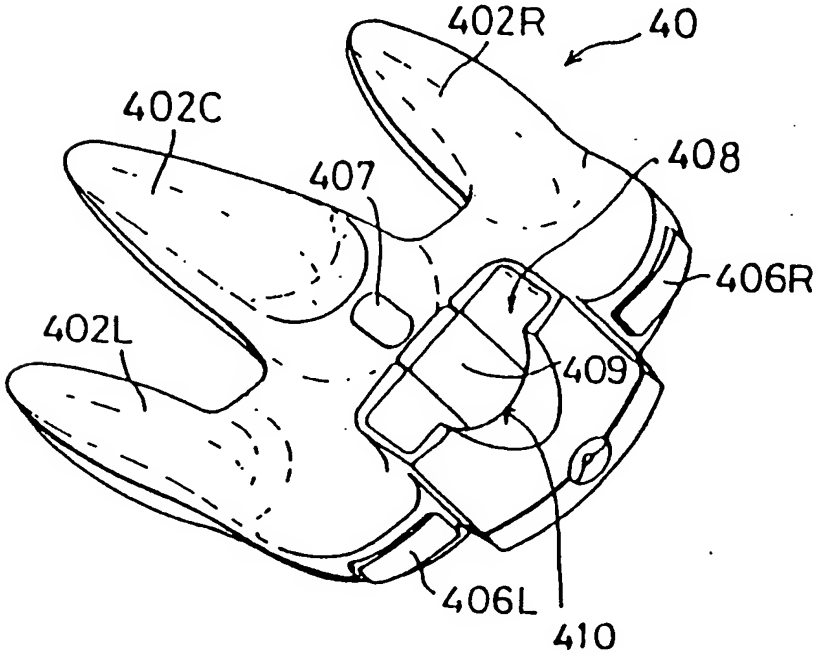
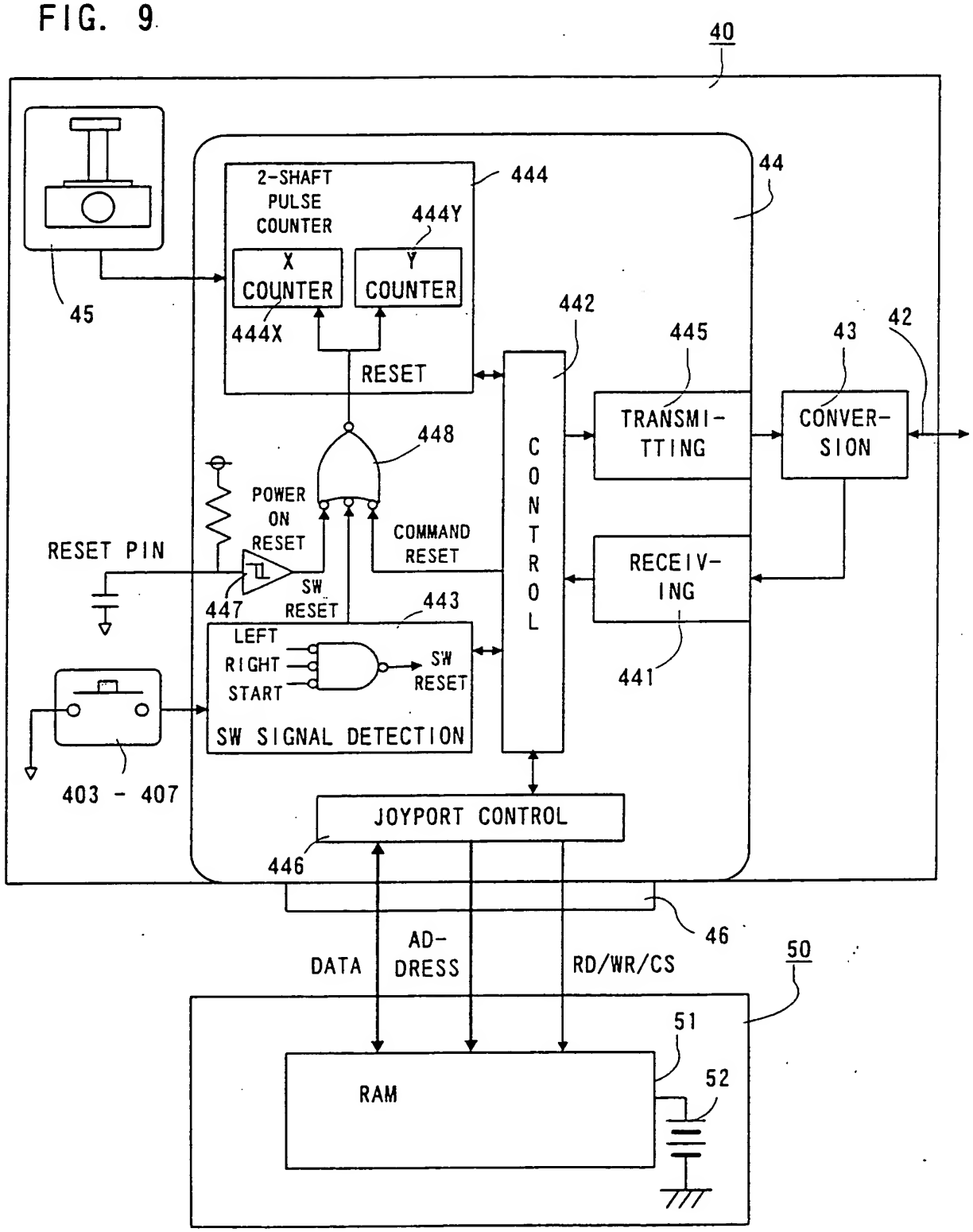


FIG. 8



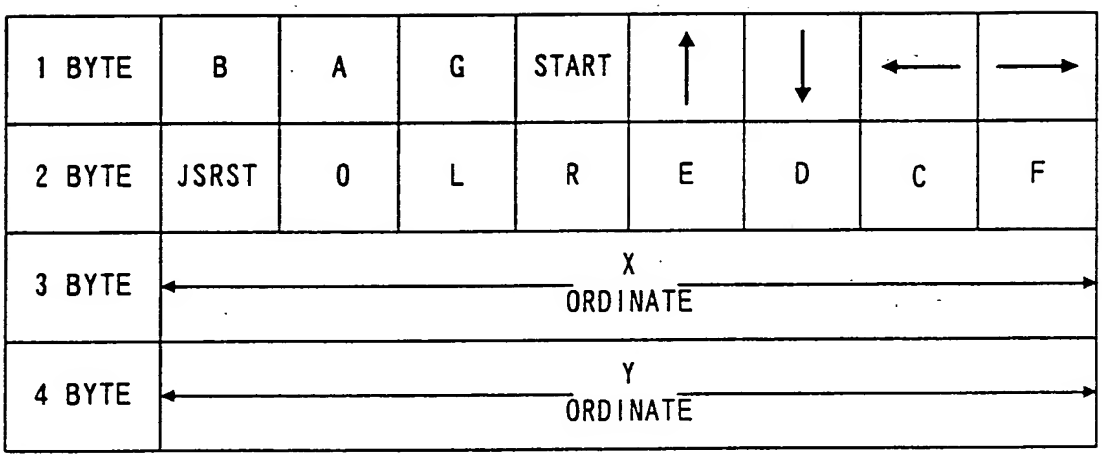
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 9



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 10



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 11

COMMAND 0: TRANSMITTING TYPE OF COMMAND
RECEPTION : 1 BYTE TRANSMISSION : 3 BYTES

		d7	d6	d5	d4	d3	d2	d1	d0
RECEPTION	1 BYTE	← COMMAND 0 →							
TRANSMISSION	1 BYTE	← TYPE L →							
	2 BYTE	← TYPE H →							
	3 BYTE	← STATUS →							

FIG. 12

COMMAND 1: ACCESSING STANDARD CONTROLLER
RECEPTION : 1 BYTE TRANSMISSION : 4 BYTES

		d7	d6	d5	d4	d3	d2	d1	d0
RECEPTION	1 BYTE	← COMMAND 1 →							
TRANSMISSION	1 BYTE	B	A	G	START	↑	↓	←	→
	2 BYTE	JSRST*	0	L	R	E	D	C	F
	3 BYTE	← X ORDINATE →							
	4 BYTE	← Y ORDINATE →							

* HIGH LEVEL AT TIME THAT L, R, START BUTTONS ARE SIMULTANEOUSLY DEPRESSED

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 13

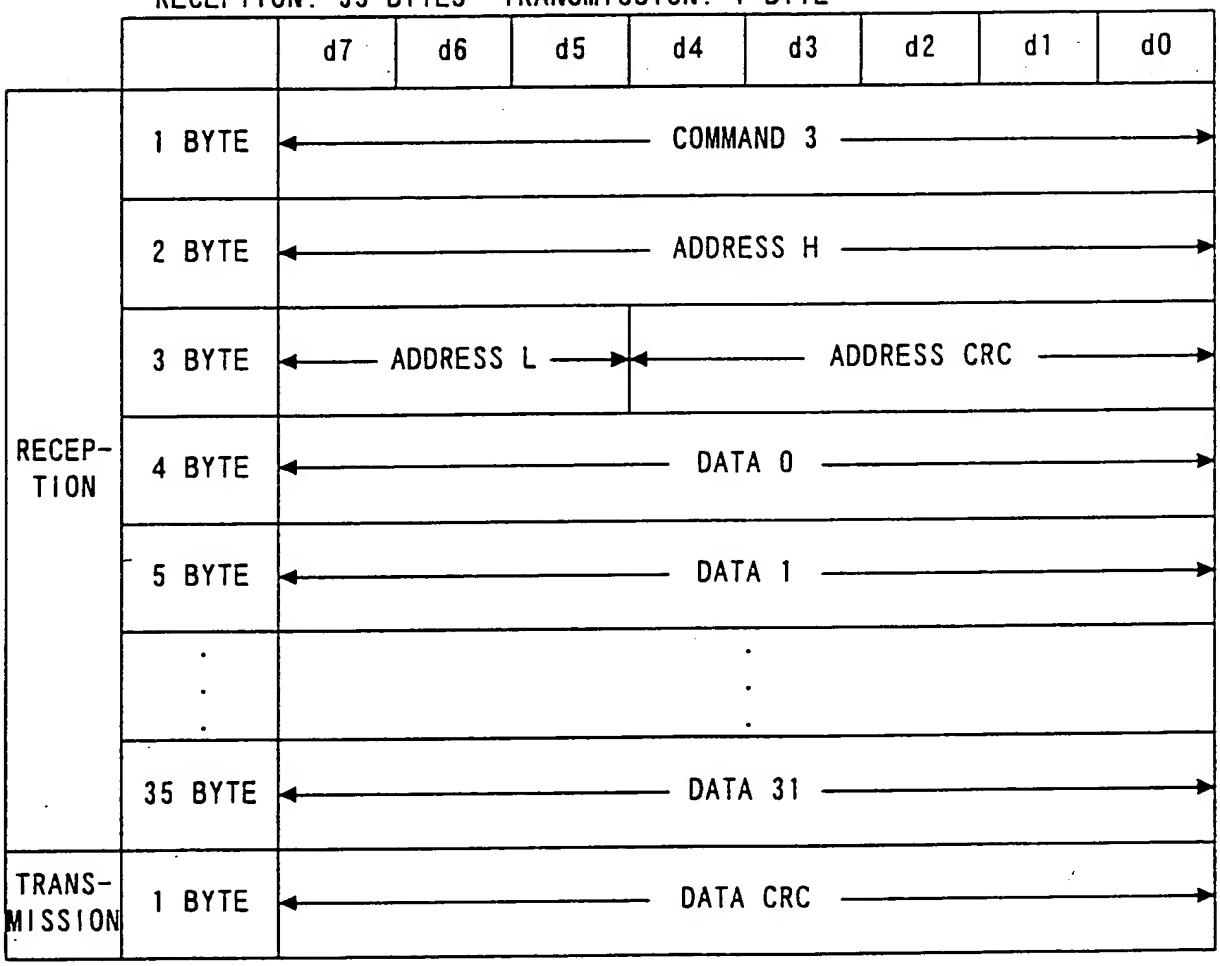
COMMAND 2: READ-OUT RAM
RECEPTION: 3 BYTES TRANSMISSION: 33 BYTES

		d7	d6	d5	d4	d3	d2	d1	d0
RECEPTION	1 BYTE	← COMMAND 2 →							
	2 BYTE	← ADDRESS H →							
	3 BYTE	← ADDRESS L →			← ADDRESS CRC →				
TRANSMISSION	1 BYTE	← DATA 0 →							
	2 BYTE	← DATA 1 →							
	⋮	⋮							
	32 BYTE	← DATA 31 →							
	33 BYTE	← DATA CRC →							

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

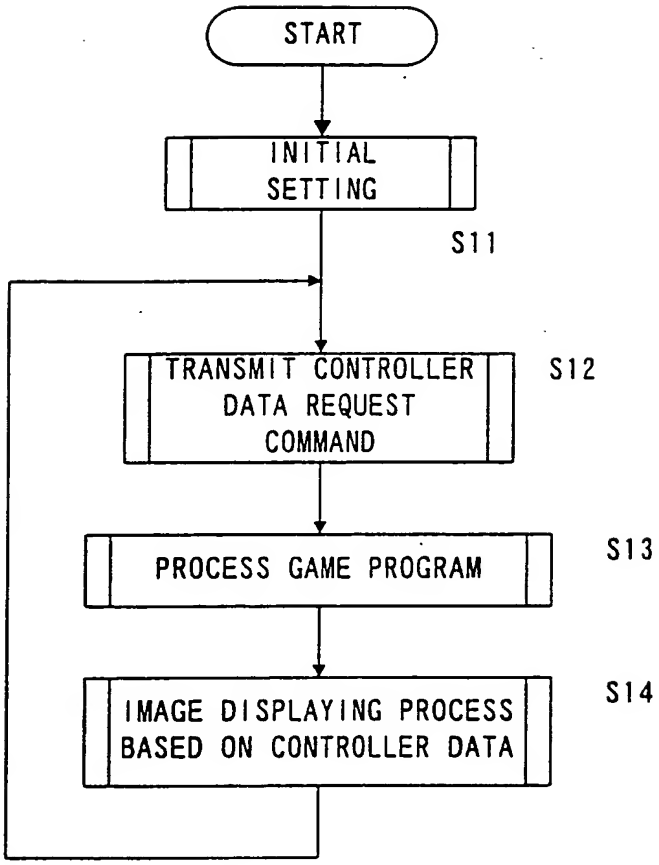
FIG. 14

COMMAND 3: WRITING INTO RAM
RECEPTION: 35 BYTES TRANSMISSION: 1 BYTE



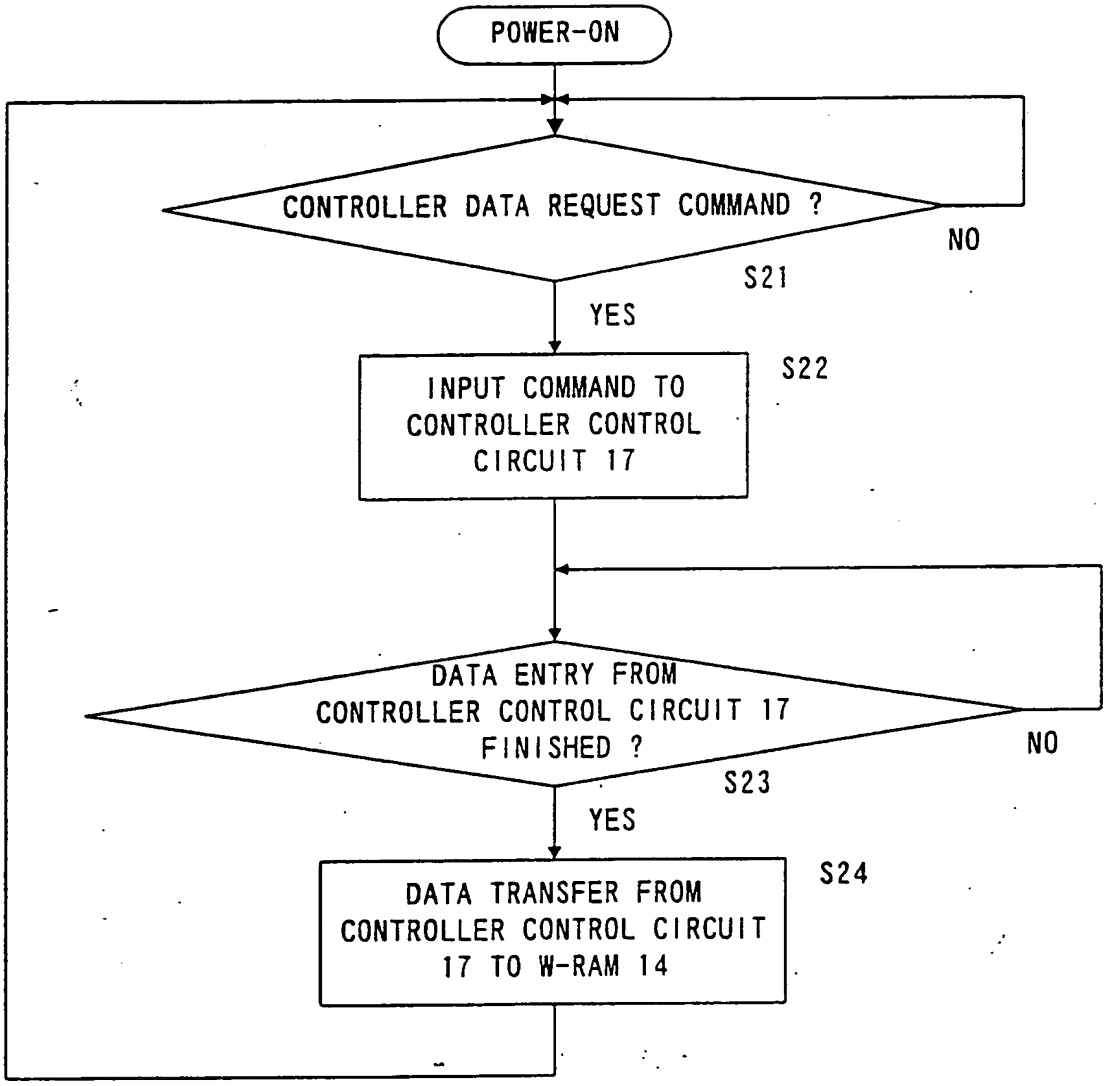
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 15



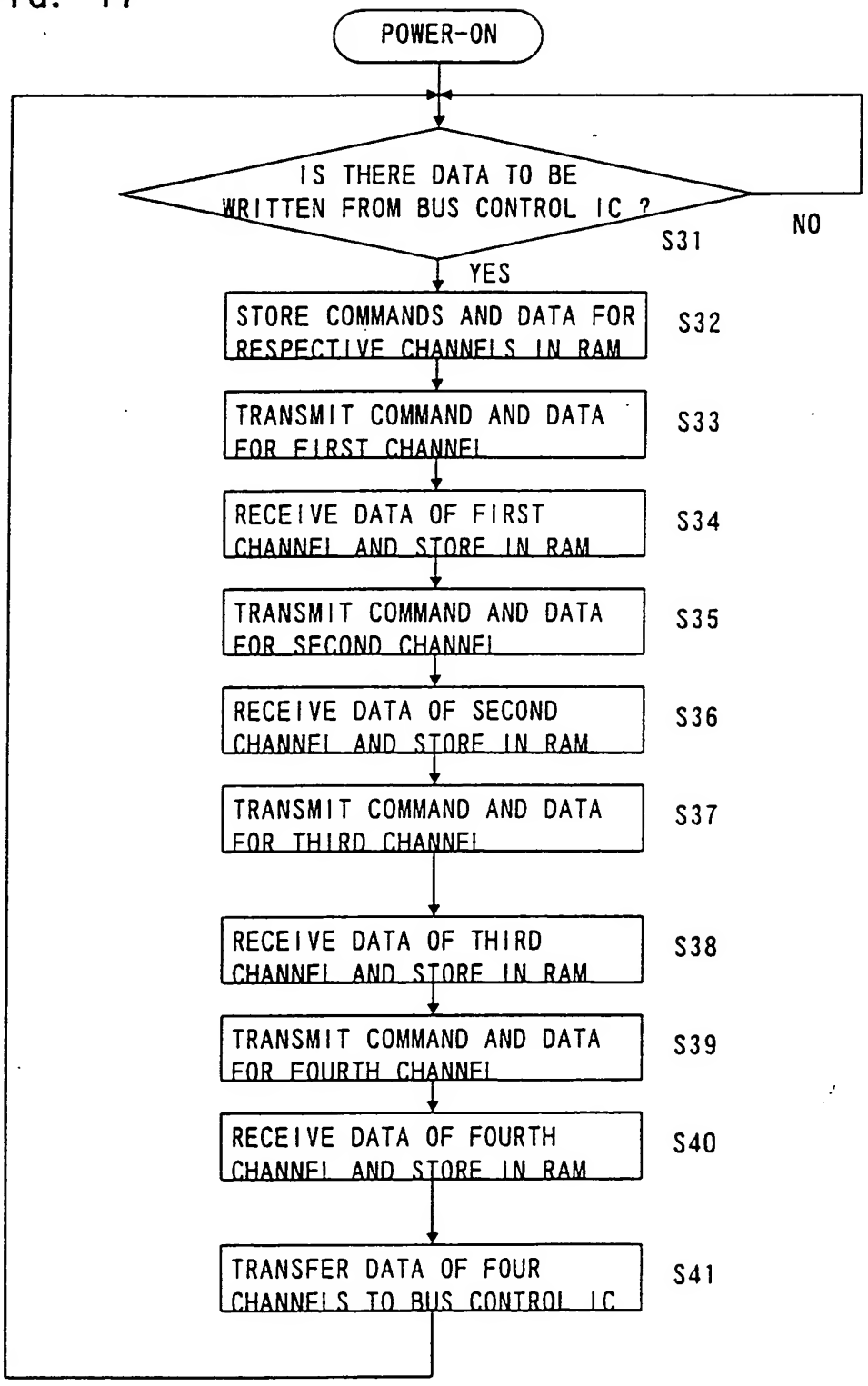
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 16



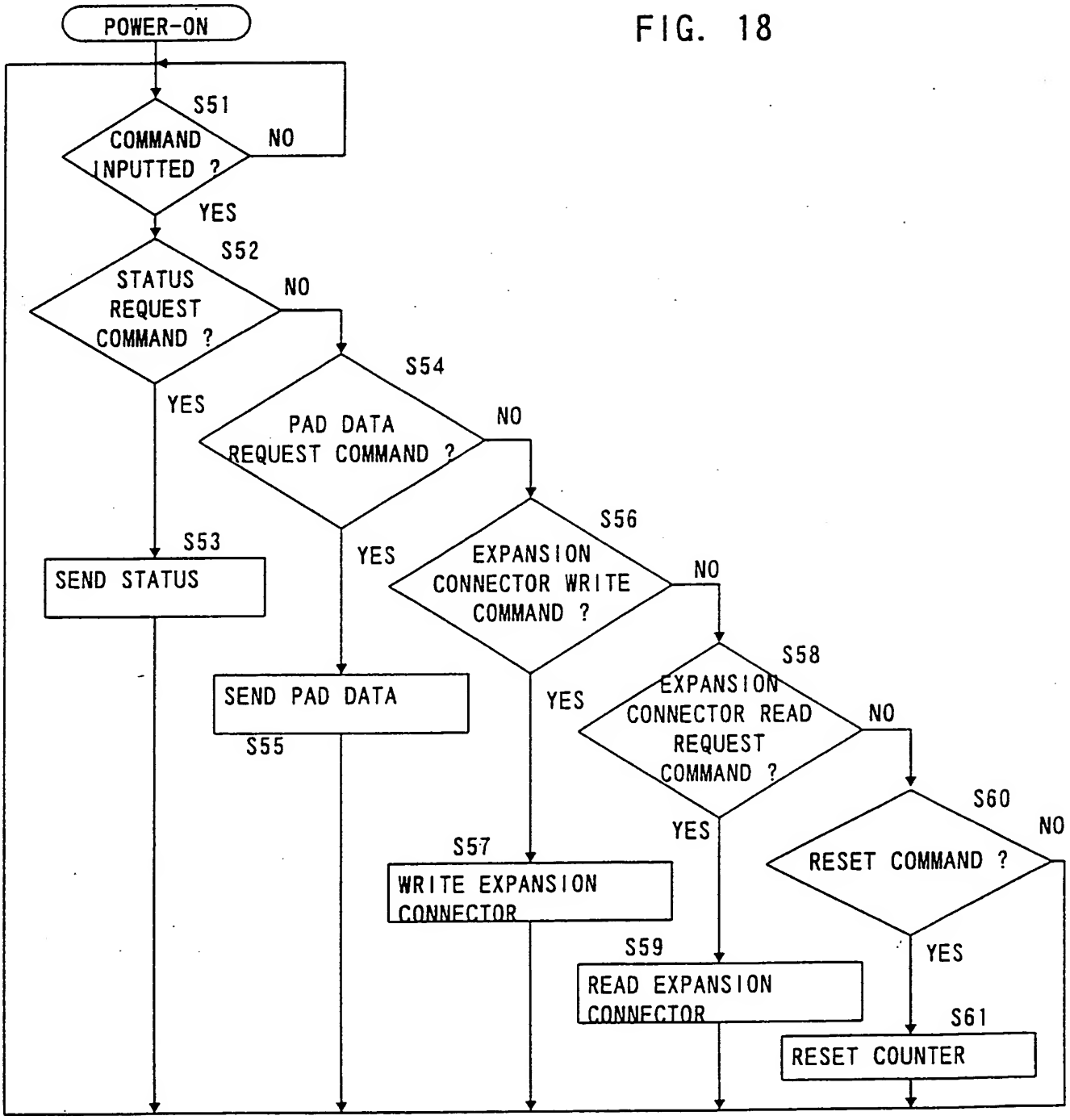
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 17



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

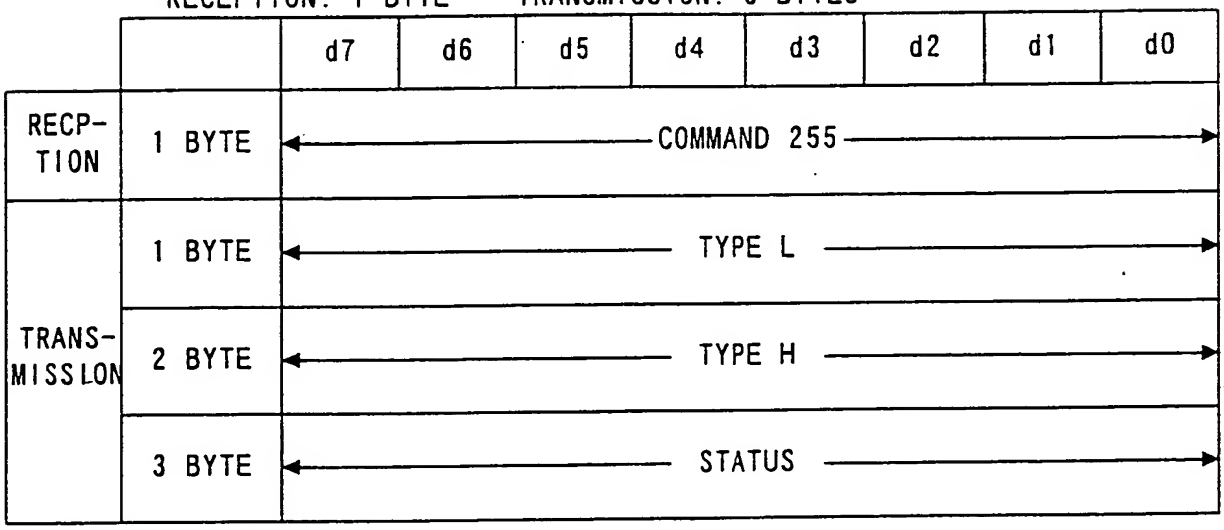
FIG. 18



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

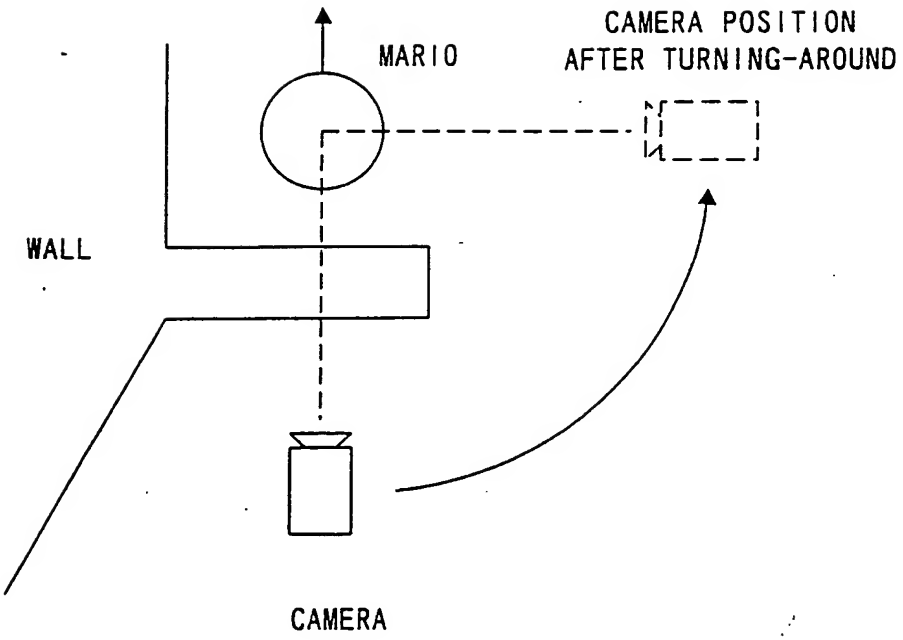
FIG. 19

COMMAND 255: CONTROLLER RESET
RECEPTION: 1 BYTE TRANSMISSION: 3 BYTES



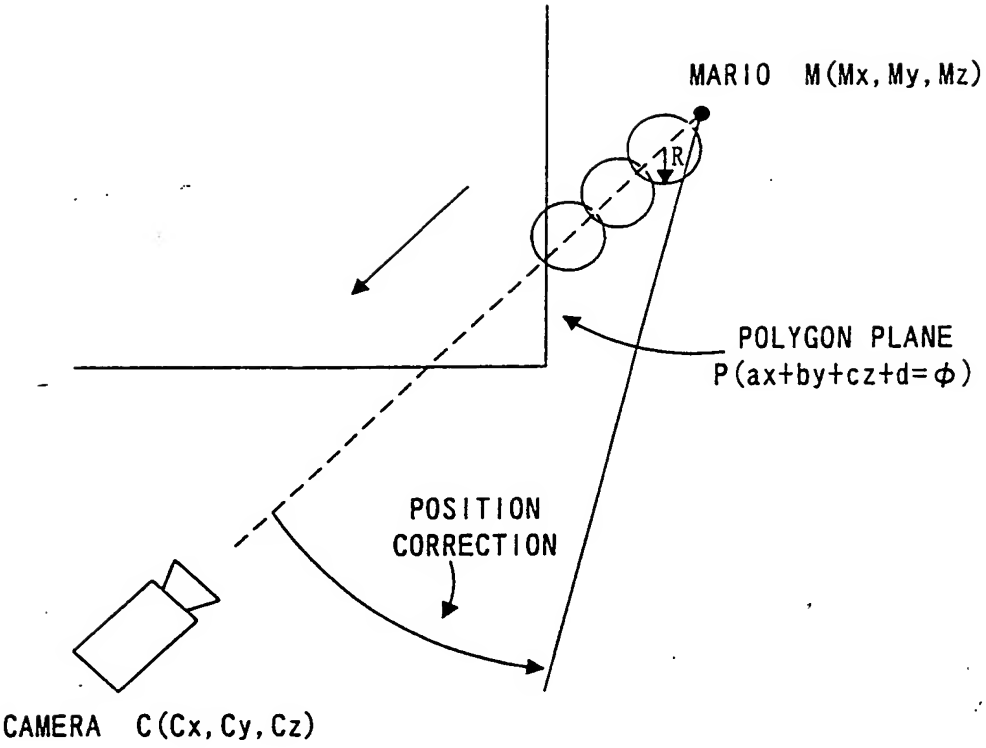
APPROVED | O.G. FIG.
BY | CLASS | SUBCLASS
D. SHERMAN

FIG. 20



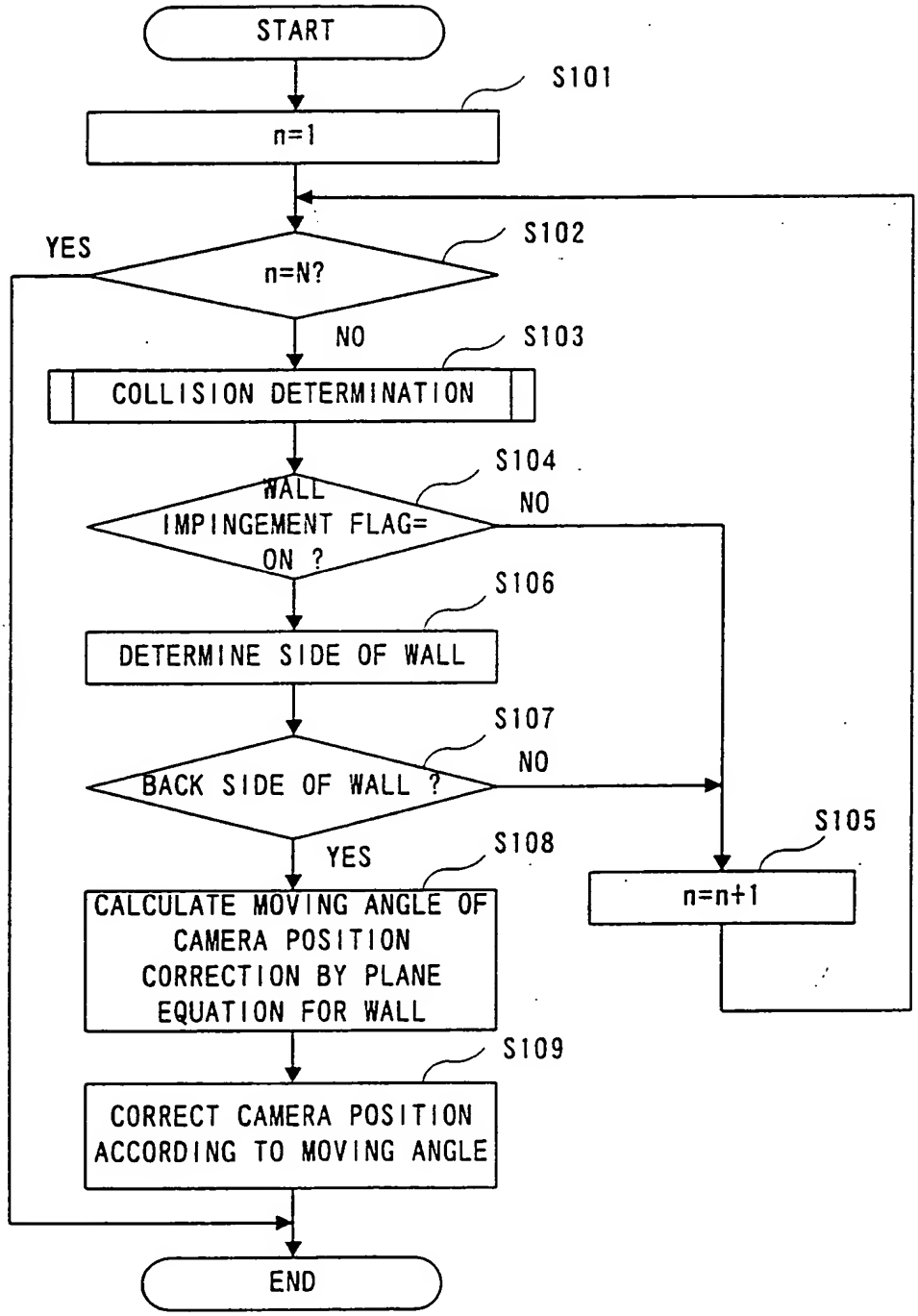
APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

FIG. 21



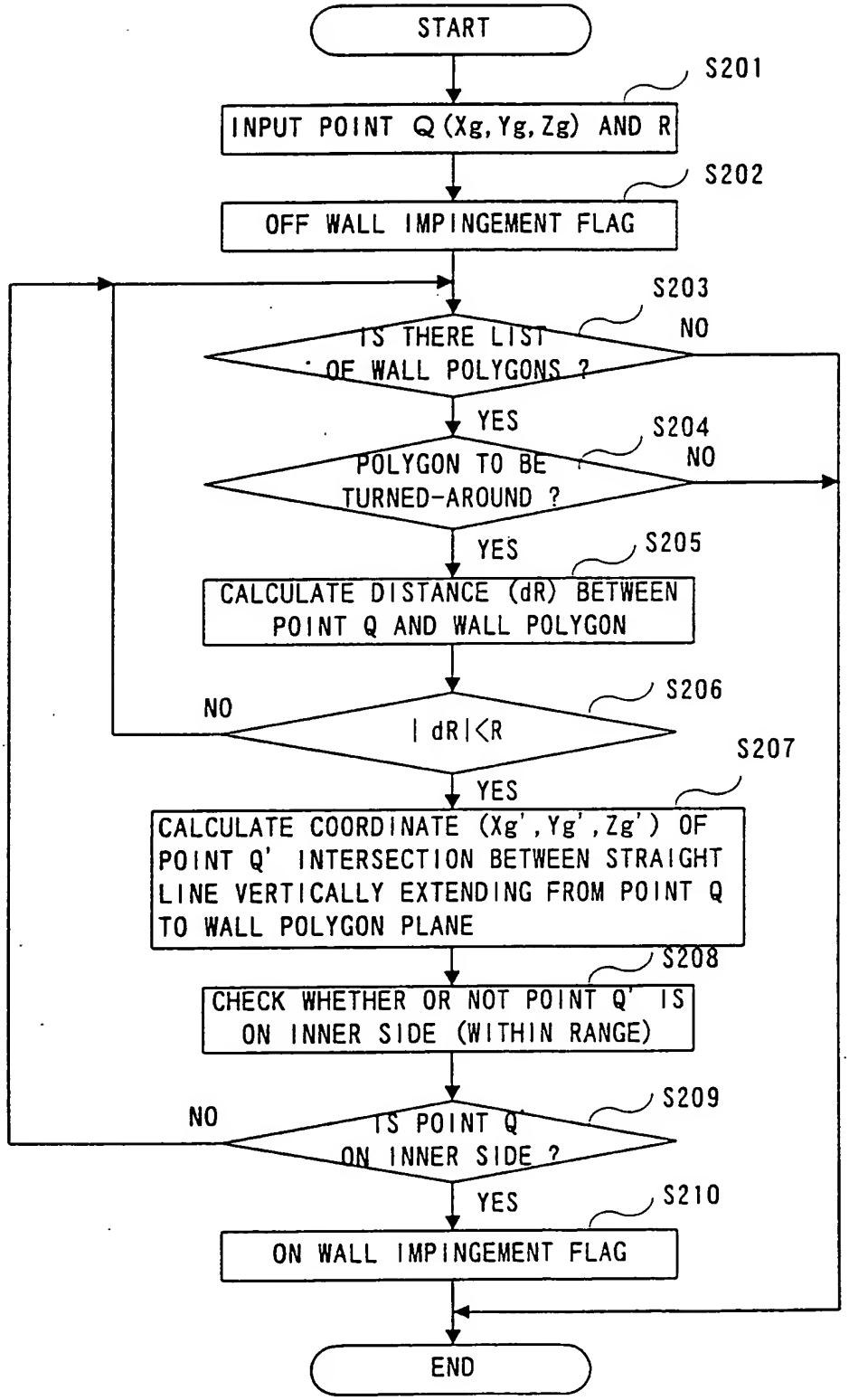
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 22



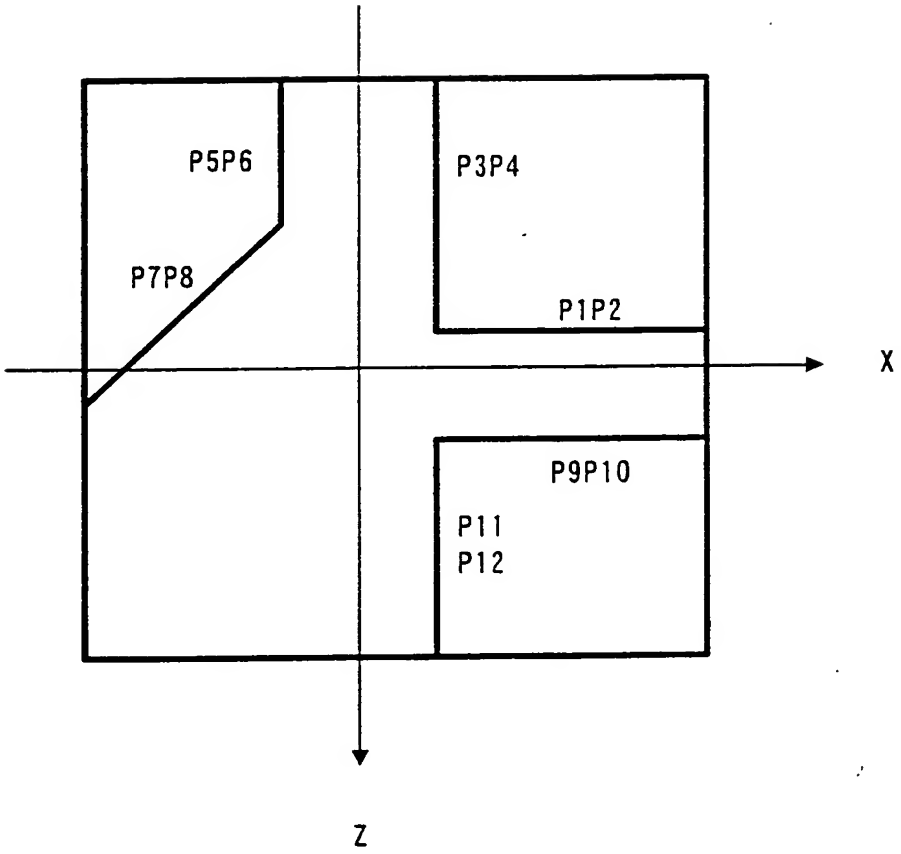
APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

FIG. 23



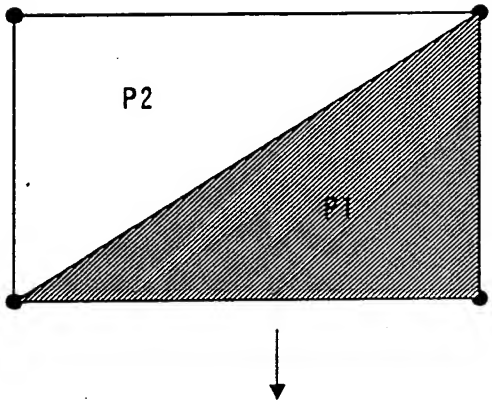
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 24



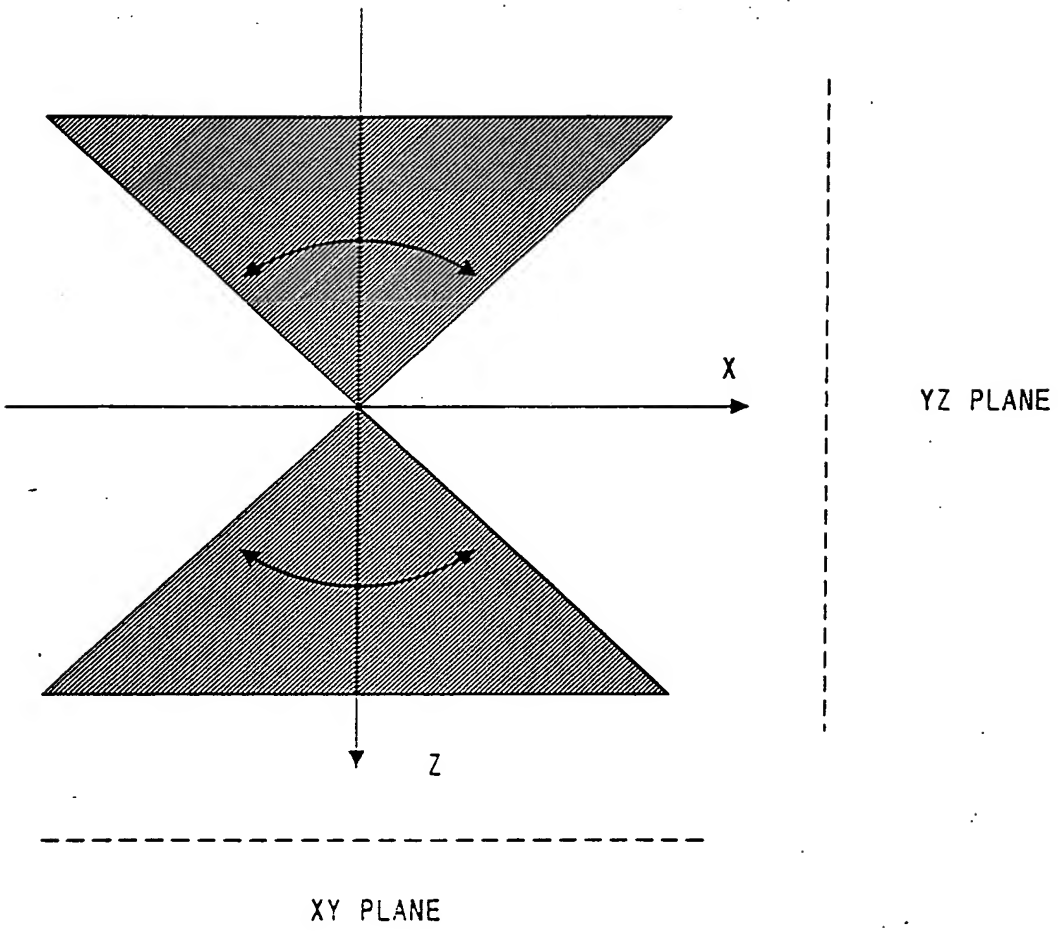
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS , SUBCLASS ,

FIG. 25



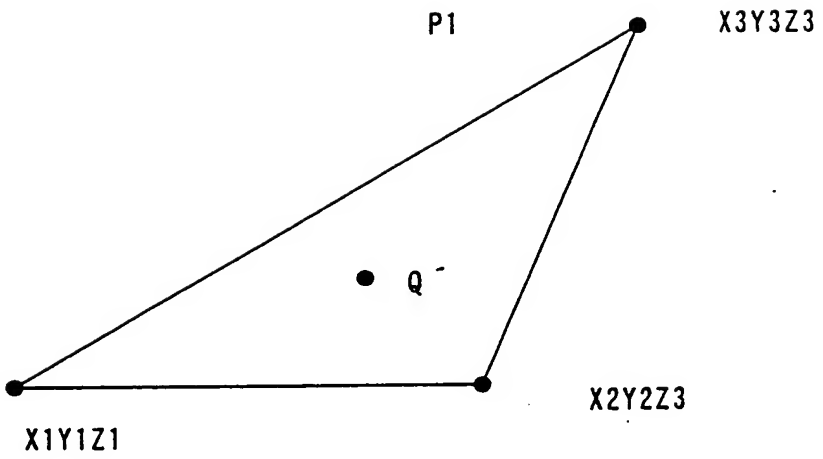
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 26



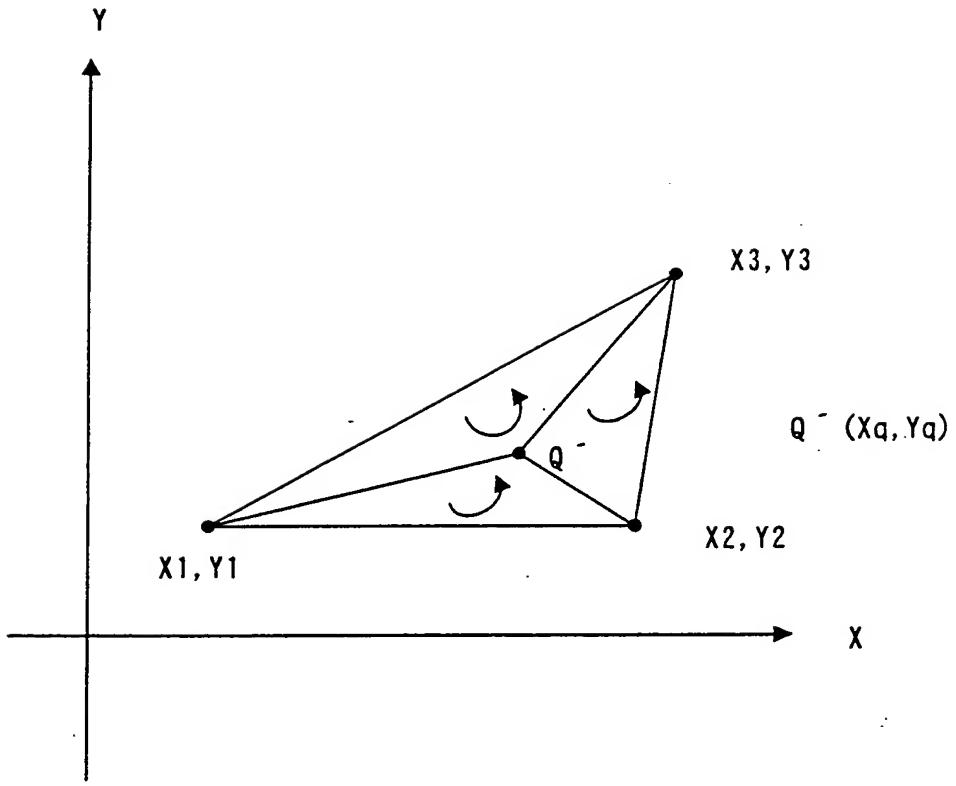
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 27



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FIG. 28



APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

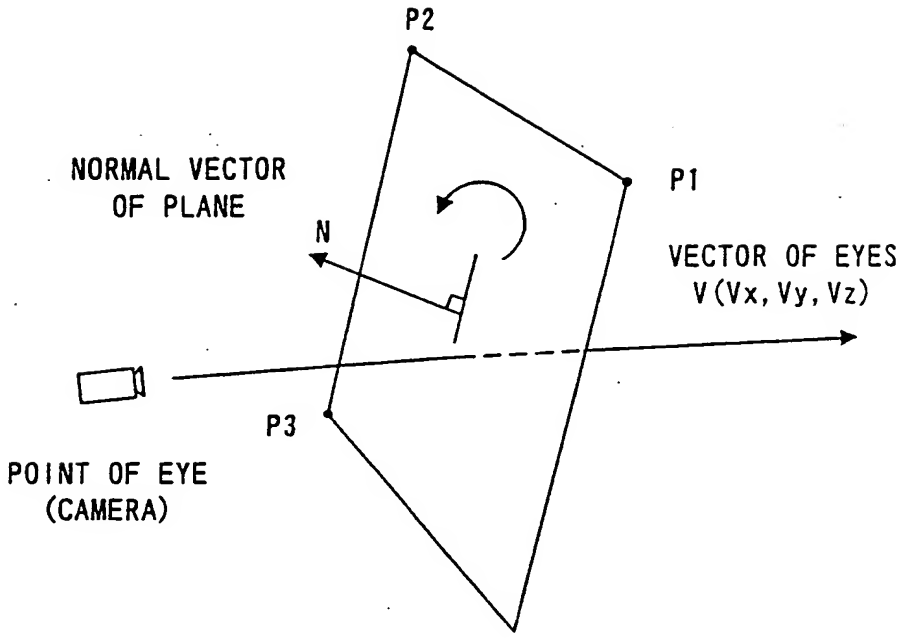



FIG. 29